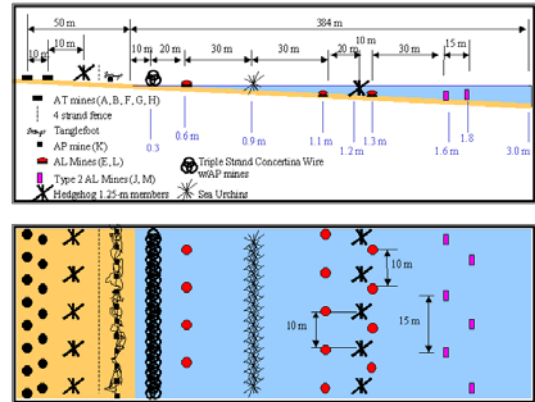


Surf Zone / Beach Zone Obstacle Reduction and Mine Countermeasures

Purpose: To use the Project Albert array of distillation models and data farming techniques in an attempt to improve both near term and far term obstacle reduction capabilities.

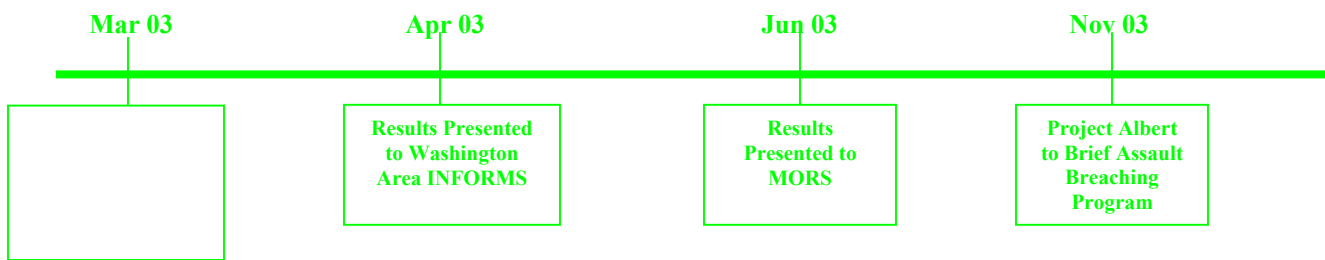
Background: Mine Countermeasures (MCM) is the capability to provide joint forces the ability to conduct operations in a mine threat environment. This includes the ability to detect, neutralize and mark mined areas in the theater of operation. The term “neutralize” is used to encompass breaching, clearing and proofing, regardless of the technology employed or region of operation. MCM is a requirement for conducting rapid and decisive operations and thus must seamlessly address mines and obstacles in the ocean, littoral and land regions. MCM also includes the ability to manage the information about mined areas in order to facilitate a support and sustainment role.



Description: Project Albert will assist the Office of Naval Research (ONR) Assault Breaching Program in evaluating current and planned technologies as well as tactics, techniques and procedures in an effort to enhance the Navy and Marine Corp assault breaching capabilities. Tackling the problem simultaneously from near and far term perspectives, Project Albert is using its distillation models to investigate a number of different scenarios. One scenario being studied for the near term capability is the use of precision guided Mk-80 series bombs in the reduction of obstacle fields. Project Albert is attempting to help answer such questions as the number, pattern, and size of bombs needed to effectively create assault lanes. Another scenario under investigation is the use of Autonomous Underwater Vehicles (AUVs) to defeat Surf Zone / Beach Zone minefields. Project Albert will assist in determining what attributes the vehicles should possess as well as the proper dispersal and employment of these vehicles. Quarterly update reports of Project Albert’s findings to the ONR Assault Breaching Program are provided. The reports will contain analysis of data farmed through the Maui High Performance Computing Center (MHPCC).

Deliverable Products: Analysis Reports

Milestones:



Action Officer: (703) 784-9568